## MARKED UP VERSION OF AMENDMENTS

Specification Amendments Under 37 C.F.R. § 1.121(b)(1)(iii)

Replace the paragraph at page 7, lines 10 through 11 with the below paragraph marked up by any of bracketing and underlining to show the changes relative to the previous version of the paragraph.

Figures 7A-7C list[s] the set of genes whose promoter regions are most likely to be bound by Ste112 by the analysis criteria described herein.

Replace the paragraph at page 34, lines 8 through 28 with the below paragraph marked up by way of bracketing and underlining to show the changes relative to the previous version of the paragraph.

The genome-wide location of epitope-tagged Ste12p before and after pheromone treatment was investigated in three independent experiments. The set of genes whose promoter regions are most likely to be bound by Ste 12 by the analysis criteria (p-value < 0.005) described herein is listed in Figures 7A-7C; the upper panel shows genes whose expression is induced by alpha factor. whereas the lower panel shows genes whose expression is not significantly induced by alpha factor. Of the genes that are induced by alpha factor and are bound by Ste12, 11 are known to participate in various steps of the mating process (FIG2, AFR1, GIC2, STE12, KAR5, FUS1, AGA1, FUS3, CIK1, FAR1, FIG1) (Figure 8). FUS3 and STE12 encode components of the signal transduction pathway involved in the response to pheromone (Madhani et al., Trends Genet., 14:151 (1999)); AFR1 and GIC2 are required for the formation of mating projections (Konopka et al., Mol. Cell Biol., 13:6876 (1993); Brown et al., Genes Dev., 11:2972 (1997); Chen et al., Genes Dev., 11:2998 (1997)); FIG2, AGA1, FIG1 and FUS1 are involved in cell fusion (Erdman et al., J. Cell Biol., 140:461 (1999); Roy et al., Mol. Cell Biol., 11:4196 (1991); Truehart et al., Mol. Cell biol., 7:2316 (1987); McCaffrey et al., Mol. Cell Biol., 7:2680 (1987)); and CIK1 and KAR5 are required for nuclear fusion (Marsh, L. and Rose, M.D. in The Moelcular and Cellular Biology of the Yeast Saccharomyces, J.R. Pringle, J.R. Broach, E.W. Jones, Eds. (Cold Spring Harbor Laboratory Press, Cold Spring Harbor, 1997),

vol. 3, pp. 827-888). Furthermore, FUS3 and FAR1 are required for pheromone-induced cell cycle arrest (Chang et al., Cell, 63:999 (1990); Fujimura, Curr. Genet., 18:395 (1990)).